## AMENDMENTS TO THE CLAIMS:

Claims 1-5, 7, 9-17, 19-24 and 38-44 were pending at the time of the Office Action.

Claims 1, 3-5, 7, 10, 16-17, 19, 38, and 40-43 are amended.

Claims 1-5, 7, 9-17, 19-24 and 38-44 remain pending.

- 1. (Currently Amended) A laminate structure, comprising:
  - a first region having a non-uniform thickness, the first region including:
    - a first layer having:
      - a first portion of a non-metallic material, the first portion at least partially encompassing a cutout region;
      - a second portion of a metallic material formed within the cutout region, the second portion abutting the first portion;
    - a second layer adjacent the first layer that non-interruptably extends along the first layer, the second layer being formed from a <u>non-metallic</u> <del>polymeric</del> material; and
    - a third layer having a first portion of a non-metallic material, the first portion at least partially encompassing a cutout region, and a second portion of a metallic material formed within the cutout region, the second portion being co-planar with the first portion, and wherein the second layer is disposed between the first and third layers.
- 2. (Original) The laminate structure of Claim 1, wherein the first portion includes a fiber-reinforced polymeric material.

- 3. (Currently Amended) The laminate structure of Claim 1, wherein the first portion includes a fiber-reinforced polymeric material having one or more fibers formed from a material selected from a group consisting of aramids, polyolefins, glass, carbon, boron, and ceramics, and wherein the metallic material of the second portion is formed from a material selected from a group consisting of titanium, aluminum, alloys of titanium, alloys of aluminum, and alloys of iron.
- 4. (Currently Amended) The laminate structure of Claim 1, <u>further comprising a second</u> region integrally coupled to the first region by one or more layers of non-metallic material, the <u>first layer of the first region not extending into the second region</u> wherein the metallic material of the second portion is formed from a material selected from a group consisting of titanium, allows of titanium, alloys of titanium, alloys of aluminum, and alloys of iron.
- 5. (Currently Amended) The laminate structure of Claim 4 1, wherein the <u>first region</u> includes a minimum-thickness portion, the second region being integrally coupled to the <u>minimum-thickness portion and having a thickness approximately equal to the minimum thickness portion of the first region first portion includes a resin.</u>
  - 6. (Cancelled)
- 7. (Currently Amended) The laminate structure of Claim 4 1, wherein the second region consists essentially of one or more non-metallic layers further comprising an adhesive resin disposed between the first layer and the second layer.
  - 8. (Cancelled)
- 9. (Previously Presented) The laminate structure of Claim 1, wherein the first portions of the first and third layers are non-coextensive.

10. (Currently Amended) A laminate structure comprising:

a first region having a non-uniform thickness, the first region including:

a metal-polymer lamina, the metal-polymer lamina having a first face and a second face spaced apart from the first face, extending to a terminal edge, the lamina including:

a ply of fiber-reinforced polymer extending between the first face and the second face and having at least one interior edge, the interior edge defining at least one cutout;

a ply of metal foil extending between the first face and the second face substantially from the interior edge to fill the at least one cutout, and; and

a polymer lamina adjacent the metal-polymer lamina, the polymer lamina having a third face and a fourth face spaced apart from the third face, the polymer lamina including a ply of fiber-reinforced polymer that extends between the third face and the fourth face and extends non-interruptably along the metal-polymer lamina and substantially to the terminal edge.

11. (Original) The laminate structure of Claim 10, wherein the metal-polymer lamina further includes a periphery and the terminal edge further defines the at least one cutout abutting the periphery.

12. (Original) The laminate structure of Claim 10, wherein the metal-polymer lamina further includes an interior, the interior edge defining the at least one cutout within the interior.

13. (Original) The laminate structure of Claim 10, wherein the fiber-reinforced polymer includes a fiber selected from a group consisting of aramids, polyolefins, glass, carbon, boron, and ceramics.

- 14. (Original) The laminate structure of Claim 10, wherein the metal foil includes a metal selected from a group consisting of titanium, aluminum, alloys of titanium, alloys of aluminum, and alloys of iron.
- 15. (Original) The laminate structure of Claim 14, wherein the alloys of titanium are selected from a group consisting of (Ti-6Al-4V), (Ti-15V-3Cr-3Sn-3Al) and (Ti-15Mo-3Al-3Nb).
- 16. (Currently Amended) The laminate structure of Claim 10, <u>further comprising a second</u> region integrally coupled to the first region by one or more layers of non-metallic material, the <u>metal-polymer lamina of the first region not extending into the second region wherein the polymer includes a resin</u>.
- 17. (Currently Amended) The laminate structure of Claim 16 10, wherein the first region includes a minimum-thickness portion, the second region being integrally coupled to the minimum-thickness portion and having a thickness approximately equal to the minimum thickness portion of the first region laminate structure further comprises an adhesive resin.

## 18. (Cancelled)

- 19. (Currently Amended) The laminate structure of Claim <u>16</u> 10, wherein the <u>second</u> region consists essentially of one or more non-metallic layers laminate structure further comprises an adhesive resin interposed between the metal polymer lamina and the polymer lamina to adhesively fuse the metal-polymer lamina to the polymer lamina.
- 20. (Original) The laminate structure of Claim 10, wherein the metal polymer lamina is a first metal-polymer lamina, the laminate structure further comprising a second metal-polymer lamina coupled to the first metal-polymer lamina.

- 21. (Previously Presented) The laminate structure of Claim 20, wherein the laminate structure further comprises the adhesive resin interposed between the first metal-polymer lamina and the second metal-polymer lamina to adhesively fuse the first metal-polymer lamina to the second metal-polymer lamina.
- 22. (Original) The laminate structure of Claim 21, wherein the first metal-polymer lamina has a first interior edge and the second metal-polymer lamina has a second interior edge and the first interior edge is not co-terminous with the second interior edge.
  - 23. (Original) The laminate structure of Claim 10, wherein the laminate structure further comprises the metal-polymer lamina and metal foil lamina, the metal foil lamina having a fifth face and a sixth face spaced apart from the fifth face and including:

    a ply of metal foil extending between the fifth face and the sixth face.
- 24. (Original) The laminate structure of Claim 23, wherein the laminate structure further comprises the adhesive resin uniformly interposed between the metal-polymer lamina and the metal lamina to adhesively fuse the metal-polymer lamina to the metal lamina.

Claims 25 - 37 (Cancelled)

- 38. (Currently Amended) A laminate structure comprising:
  - a first region having a non-uniform thickness, the first region including:
    - a metal-polymer lamina, the metal-polymer lamina having a first face and a second face spaced apart from the first face, extending to a terminal edge, the lamina including:
      - a ply of fiber-reinforced polymer extending between the first face and the second face and having an interior edge, the interior edge defining at least one cutout; and
      - a ply of metal foil extending between the first face and the second face substantially from the interior edge to fill the at least one cutout;
    - a fiber-reinforced polymer lamina, the polymer lamina having a third face and a fourth face spaced apart, extending to the terminal edge, the lamina including:
      - a ply of fiber-reinforced polymer extending non-interruptably along the metal-polymer lamina and substantially to the terminal edge; and
    - an adhesive resin uniformly interposed between the metal-polymer lamina and the fiber-reinforced polymer lamina to adhesively couple fuse the metal-polymer lamina to the fiber-reinforced polymer lamina.
- 39. (Previously Presented) The laminate structure of Claim 38, wherein the metal-polymer lamina further includes a periphery and the terminal edge further defines the at least one cutout abutting the periphery.
- 40. (Currently Amended) The laminate structure of Claim 38, <u>further comprising a second</u> region integrally coupled to the first region by one or more layers of non-metallic material, the metal-polymer lamina of the first region not extending into the second region wherein the

metal-polymer lamina further includes an interior, the interior edge defining the at least one cutout within the interior.

- 41. (Currently Amended) The laminate structure of Claim 38, wherein the fiber-reinforced polymer includes a fiber selected from a group consisting of aramids, polyolefins, glass, carbon, boron, and ceramics, and wherein the metal foil includes a metal selected from a group consisting of titanium, aluminum, alloys of titanium, alloys of aluminum, and alloys of iron.
- 42. (Currently Amended) The laminate structure of Claim 40 38, wherein the <u>first region</u> includes a minimum-thickness portion, the second region being integrally coupled to the <u>minimum-thickness portion</u> and having a thickness approximately equal to the <u>minimum thickness portion</u> of the first region metal foil includes a metal selected from a group consisting of titanium, aluminum, alloys of titanium, alloys of aluminum, and alloys of iron.
- 43. (Currently Amended) The laminate structure of Claim 40 42, wherein second region consists essentially of one or more non-metallic layers the alloys of titanium include (Ti-6Al-4V), (Ti-15V-3Cr-3Sn-3Al) and (Ti-15Mo-3Al-3Nb).
- 44. (Previously Presented) The laminate structure of Claim 38, wherein the polymer includes a resin.